10/25/2005

Bank: (Aviation Mechanic General) Airman Knowledge Test Question Bank

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1. A01G AMG

In an ac circuit, the effective voltage is

- A) equal to the maximum instantaneous voltage.
- B) greater than the maximum instantaneous voltage.
- C) less than the maximum instantaneous voltage.
- 2. A01G AMG

The basis for transformer operation in the use of alternating current is mutual

- A) inductance.
- B) capacitance.
- C) reactance.
- 3. A01G AMG

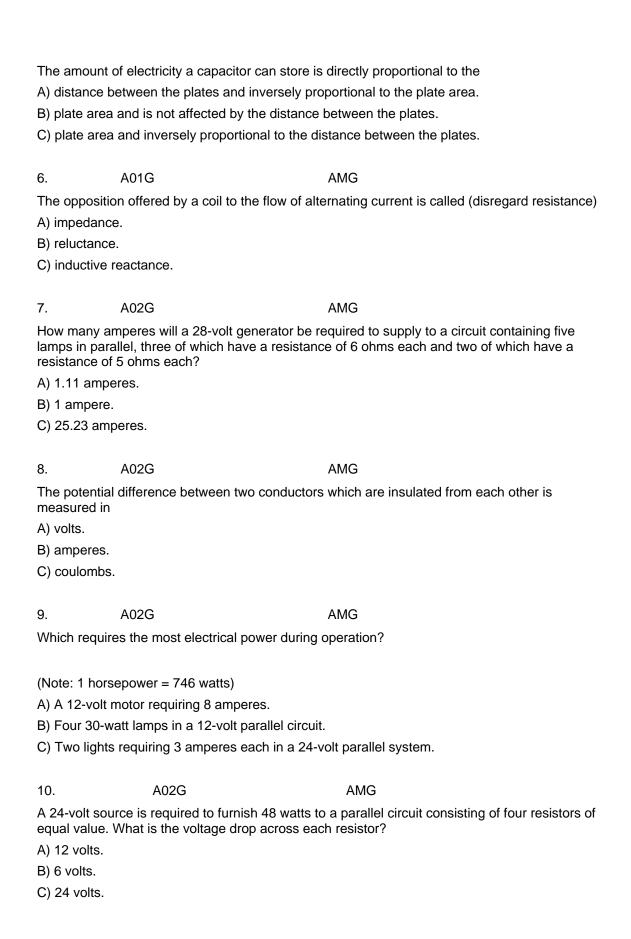
(Refer to General figure 2.) What is the total capacitance of a circuit containing three capacitors in parallel with capacitances of .02 microfarad, .05 microfarad, and .10 microfarad, respectively?

- A) .170 μ F.
- B) 0.125 pF.
- C) .0125 µ F.
- 4. A01G AMG

When inductors are connected in series in a circuit, the total inductance is (where the magnetic fields of each inductor do not affect the others)

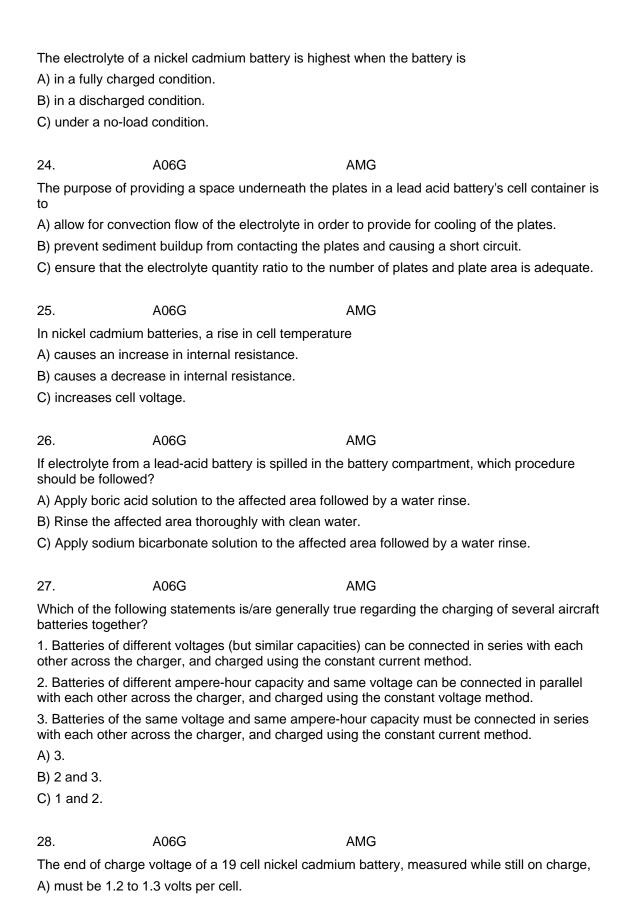
(Note: LT = L1 + L2 + L3 . . .)

- A) less than the inductance of the lowest rated inductor.
- B) equal to the inductance of the highest rated inductor.
- C) equal to the sum of the individual inductances.
- 5. A01G AMG



Which is correct of	A04G	AMG		
	concerning a parallel circuit?			
A) Total resistance	e will be smaller than the smalles	et resistor.		
B) Total resistance will decrease when one of the resistances is removed.				
,	Irop is the same as the total resis			
·, · · · · · · · · · · · · · · · · · ·	,			
12.	A04G	AMG		
Transfer of electri	c energy from one circuit to anotl	ner without the aid of electrical connections		
A) is called induct	tion.			
B) is called capac	itance.			
C) can cause exc voltages/amperag		result is practical for use only with low		
13.	A04G	AMG		
Through which ma	aterial will magnetic lines of force	pass the most readily?		
A) Copper.	Ğ	•		
B) Iron.				
C) Aluminum.				
,				
14.	A04G	AMG		
(Refer to General	figure 11.) Find the total current	flowing in the wire between points C and D.		
A) 6.0 amperes.				
B) 2.4 amperes.				
C) 3.0 amperes.				
C) 3.0 amperes.				
C) 3.0 amperes.	A04G	AMG		
15.	A04G figure 13.) Determine the total co			
15.				
15. (Refer to General				
15. (Refer to General A) 0.2 ampere.				
15. (Refer to General A) 0.2 ampere. B) 1.4 amperes.				
15. (Refer to General A) 0.2 ampere. B) 1.4 amperes.				
15. (Refer to General A) 0.2 ampere. B) 1.4 amperes. C) 0.8 ampere.	figure 13.) Determine the total co	urrent flow in the circuit.		
15. (Refer to General A) 0.2 ampere. B) 1.4 amperes. C) 0.8 ampere.  16. What unit is used	figure 13.) Determine the total cu	urrent flow in the circuit.		
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A) 1.07 ohr B) 26 ohms		
C) 0.93 ohr	m.	
18.	A04G	AMG
Which is co	orrect in reference to ele	ctrical resistance?
	ctrical devices will have ney will have if connecte	the same combined resistance if they are connected in d in parallel.
B) If one of will become		lighting circuit is removed, the total resistance of the circuit
	rical device that has a h with the same applied v	igh resistance will use more power than one with a low oltage.
19.	A04G	AMG
	ource is required to furni lue. What is the value of	sh 192 watts to a parallel circuit consisting of three resistors feach resistor?
A) 36 ohms	S.	
B) 4 ohms.		
C) 12 ohms	S.	
20.	A04G	AMG
The voltage	e drop in a circuit of know	wn resistance is dependent on
A) the volta	age of the circuit.	
B) only the amperage.	resistance of the condu	ctor, and does not change with a change in either voltage or
C) the amp	erage of the circuit.	
21.	A04G	AMG
(Refer to G	eneral figure 11.) Find tl	ne voltage across the 8-ohm resistor.
A) 8 volts.		
B) 20.4 vol	ts.	
C) 24 volts		
22.	A06G	AMG
A fully char because	ged lead acid battery wi	Il not freeze until extremely low temperatures are reached
A) the acid	is in the plates, thereby	increasing the specific gravity of the solution.
B) most of	the acid is in the solution	٦.
C) increase	ed internal resistance ge	nerates sufficient heat to prevent freezing.
23.	A06G	AMG



B) must be	1.4 volts per cell.	
•	•	nd the method used for charging.
29.	A06G	AMG
Which cond battery?	lition is an indication of i	mproperly torqued cell link connections of a nickel cadmium
A) Light spe	ewing at the cell caps.	
B) Toxic and	d corrosive deposits of p	potassium carbonate crystals.
C) Heat or b	ourn marks on the hardv	vare.
30.	A03G	AMG
(Refer to Go	· ,	ohmmeter connected into the circuit as shown, what will the
A) 20 ohms		
B) Infinite re	esistance.	
C) 10 ohms		
31.	A03G	AMG
The correct	way to connect a test ve	oltmeter in a circuit is
A) in series	with a unit.	
B) between	the source voltage and	the load.
C) in paralle	el with a unit.	
32.	A03G	AMG
	eneral figure 6.) If resistont will the ohmmeter reactions.	or R5 is disconnected at the junction of R4 and R3 as d?
A) 2.76 ohm	ns.	
B) 3 ohms.		
C) 12 ohms		
33.	A03G	AMG
		a dome light of 20 watts are connected in parallel to a 30-vol -watt light is measured, it will be
A) equal to	the voltage across the 2	20-watt light.
B) half the v	oltage across the 20-wa	att light.
C) one-third	of the input voltage.	
34.	A03G	AMG
.002KV equ	als	
A) 20 volts.		
B) 2.0 volts.		
,		

C) .2 volt.		
35.	A05G	AMG
(Refer to General f the given inputs? A) 1. B) 2. C) 3.	igure 26.) Which of the logic gate	output conditions is correct with respect to
36.	A05G	AMG
(Refer to General f A) Any input being B) Any input being		erning the depicted logic gate is true?
37.	A05G	AMG
Forward biasing of A) conduct via zend B) conduct. C) turn off.	a solid state device will cause th er breakdown.	e device to
38.	A05G	AMG
A) emitter is positive B) base is negative	stor application, the solid state deve with respect to the base.  with respect to the emitter.  with respect to the emitter.	vice is turned on when the
39.	A05G	AMG
<ul><li>(Refer to General f</li><li>A) inductor.</li><li>B) resistor.</li><li>C) capacitor.</li></ul>	igure 17.) The electrical symbol r	epresented at number 5 is a variable
40.	A05G	AMG
(Refer to General f A) 2. B) 1. C) 3.	igure 21.) Which symbol represe	nts a variable resistor?
41.	A05G	AMG

,	e PUSH TO TEST circuit.	the leading good in set-
, ·	· ·	when the landing gear is retracted.
C) close th	e UP indicator light circuit v	when the landing gear is retracted.
42.	A05G	AMG
A thermal s	switch or thermal protector,	as used in an electric motor, is designed to
A) close th	e integral fan circuit to allov	w cooling of the motor.
B) open the	e circuit in order to allow co	ooling of the motor.
C) reroute	the circuit to ground.	
43.	A05G	AMG
	seneral figure 16.) With pow how many relays in the sys	ver to the bus and the fuel selector switched to the riging stem are operating?
B) Two.		
C) Four.		
44.	A05G	AMG
	seneral figure 18.) The cont anding gears are down to	rol valve switch must be placed in the neutral position
A) permit tl	ne test circuit to operate.	
B) prevent	the warning horn from sou	nding when the throttles are closed.
C) remove	the ground from the green	light.
45.	A05G	AMG
	seneral figure 19.) When the orn will not sound if an oper	e throttles are retarded with only the right gear down, a occurs in wire
C) No. 6.		
46.	A05G	AMG
		hooting an open circuit with a voltmeter as shown in t
circuit will		
	turrent to flow and illuminate	·
		ne current flow will be greater than normal.
C) permit t	he battery voltage to appea	ar on the voltmeter.
47.	A05G	AMG

B) The fuel to	ank crossfeed valve open	vill not open. light will illuminate.
•	•	open light will not illuminate.
48.	A05G	AMG
	neral figure 23.) If an ope	
A) cannot be		, 3
B) will not be	affected.	
C) cannot be	turned off.	
49.	B02G	AMG
	g purposes, almost all obj s; these include the	ects are composed of one or some combination of six
A) angle, arc	, line, plane, square, and	circle.
B) triangle, c	ircle, cube, cylinder, cone	, and sphere.
C) triangle, p	olane, circle, line, square,	and sphere.
50.	B02G	AMG
	g to 14 CFR Part 91, repa led in the permanent reco	irs to an aircraft skin should have a detailed dimensionds.
	sion, a mechanic may nee w design, or a modificatio	d to make a simple sketch of a proposed repair to an n.
Regarding th	ne above statements,	
A) only No. 1	is true.	
B) only No. 2	? is true.	
C) both No.	1 and No. 2 are true.	
51.	B02G	AMG
(Refer to Gealterations?	neral figure 31.) What are	the proper procedural steps for sketching repairs and
A) 3, 1, 4, 2.		
B) 4, 2, 3, 1.		
C) 1, 3, 4, 2.		
	DOOG	AMG
52.	B02G	AIVIO

What is the class of working drawing that is the description/depiction of a single part?  A) Installation drawing.  B) Assembly drawing  C) Detail drawing.  54. B03G AMG  (Refer to General figure 34.) What would be the minimum diameter of 4130 round stock required for the construction of the clevis that would produce a machined surface?  A) 55/64 inch.  B) 1 inch.  C) 7/8 inch.  55. B03G AMG  In the reading of aircraft blueprints, the term 'tolerance', used in association with aircraft parcomponents,  A) is the tightest permissible fit for proper construction and operation of mating parts.  B) is the difference between extreme permissible dimensions that a part may have and still acceptable.  C) represents the limit of galvanic compatibility between different adjoining material types in aircraft parts.  56. B03G AMG  (1) A measurement should not be scaled from an aircraft print because the paper shrinks of stretches when the print is made.  (2) When a detail drawing is made, it is carefully and accurately drawn to scale, and is dimensioned.  Regarding the above statements,  A) only No. 2 is true.  B) both No. 1 and No. 2 are true.  C) neither No. 1 nor No. 2 is true.  57. B03G AMG  Adrawing in which the subassemblies or parts are shown as brought together on the aircracalled  A) an assembly drawing.  B) an installation drawing.	53.	B02G	AMG
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	A) only No. 2 is tr B) both No. 1 and C) neither No. 1 r	d No. 2 are true. nor No. 2 is true.	AMG
B) an installation drawing.	A) only No. 2 is tr B) both No. 1 and C) neither No. 1 r 57. A drawing in whice	d No. 2 are true. nor No. 2 is true. B03G	
,	A) only No. 2 is tr B) both No. 1 and C) neither No. 1 r 57. A drawing in which	d No. 2 are true.  nor No. 2 is true.  B03G  th the subassemblies or	

58.	B03G	AMG	
In what type of electrical diagram are images of components used instead of conventional electrical symbols?			
A) A pictorial di	agram.		
B) A schematic	diagram.		
C) A block diag	ıram.		
59.	B01G	AMG	
	ral figure 27.) In the isome ted by the arrow.	tric view of a typical aileron balance weight, identify	
A) 1.			
B) 3.			
C) 2.			
60.	B01G	AMG	
Which stateme	nt is true regarding an orth	ographic projection?	
A) There are al	ways at least two views.		
B) It could have	e as many as eight views.		
C) One view, to	vo view, and three view dra	awings are the most common.	
61.	B01G	AMG	
		o indicate specific measured distances from the e manufacturer, to points in or on the aircraft?	
1. Zone numbe	rs.		
2. Reference n	umbers.		
<ol><li>Station numl</li></ol>	oers.		
A) 1 and 3.			
B) 3.			
C) 2			
62.	B01G	AMG	
(1) Schematic	diagrams indicate the locat	tion of individual components in the aircraft.	
(2) Schematic of the system.	diagrams indicate the locat	tion of components with respect to each other within	
Degarding the	ahova etatomonto		
	above statements,		
A) only No. 1 is			
•	B) both No. 1 and No. 2 are true.		
C) only No. 2 is	s uue.		

63.	B04G	AMG
(Refer to Genera flex) if the tempe		tension for a 3/16-inch cable (7 x 19 extra
A) 135 pounds.		
B) 125 pounds.		
C) 140 pounds.		
64.	B04G	AMG
carrying a continu		um wire size of a single cable in a bundle et from the bus to the equipment in a 28-volt
A) No. 12.		
B) No. 14.		
C) No. 16.		
65.	C02G	AMG
	the maximum forward loaded CG be used for items of useful load the	of an aircraft, minimum weights, arms, and nat are located aft of the
A) rearward CG I	imit.	
B) forward CG lin	nit.	
C) datum.		
66.	C02G	AMG
inches to +42.1 in		G of +30.5 inches. The CG range is +32.0 of the ballast necessary to bring the CG es.
A) 61.98 pounds.		
B) 30.58 pounds.		
C) 57.16 pounds		
67.	C02G	AMG
distance aft from		are placed in an airplane so that their ectively. How far forward of the CG should a ne CG will not be changed?
A) 3 feet.		
B) 2.5 feet.		
C) 8 feet.		
68.	C02G	AMG
If the empty weig	ht CG of an airplane lies within the	e empty weight CG limits,
A) it is necessary	to calculate CG extremes.	

B) it is not necessary to calculate CG extremes.

C) minimum fuel should be used in both forward and rearward CG checks.			
69.	C02G	AMG	
When determining the empty weight of an aircraft, certificated under current airworthiness standards (14 CFR Part 23), the oil contained in the supply tank is considered  A) a part of the empty weight.  B) a part of the useful load.  C) the same as the fluid contained in the water injection reservoir.			
70.	C02G	AMG	
The CG range in s	ingle rotor helicopters is		
A) much greater th	•		
,	he same as the CG range for airp	olanes.	
C) more restricted	than for airpianes.		
71.	C02G	AMG	
The maximum wei found	ght as used in weight and balance	e control of a given aircraft can normally be	
A) by adding the w empty weight.	reight of full fuel, pilot, passengers	s, and maximum allowable baggage to the	
,	pecification or Type Certificate Da	ata Sheet.	
C) by adding the e	mpty weight and payload.		
72.	C02G	AMG	
An aircraft's LEMA	.C and TEMAC are defined in terr	ns of distance	
A) from the datum.			
B) from each other			
C) ahead of and be	ehind the wing center of lift, respe	ectively.	
73.	C02G	AMG	
In a balance comp removed, use	utation of an aircraft from which a	an item located aft of the datum was	
A) (-)weight X (+)a	rm (-)moment.		
B) (-)weight X (-)arm (+)moment.			
C) (+)weight X (-)a	ırm (-)moment.		
74.	C01G	AMG	
Which statement is	s true regarding helicopter weight	and balance?	
A) Regardless of internal or external loading, lateral axis cg control is ordinarily not a factor in maintaining helicopter weight and balance.			
B) The moment of tail-mounted components is subject to constant change.			

C) Weight and balance procedures for airplanes generally also apply to helicopters.			
75. C01G AMG Use of which of the following generally yields the highest degree of aircraft leveling accuracy? A) Electronic load cell(s). B) Spirit level(s). C) Plumb bob and chalk line.			
B) basic operating	the weight of full crew, passenge weight without crew, fuel, and ca	•	
<ul><li>77.</li><li>What type of mean</li><li>A) Distance.</li><li>B) Weight.</li><li>C) Weight x distant</li></ul>	-	AMG e arm in weight and balance computation?	
78. C01G AMG  The useful load of an aircraft consists of the A) crew, usable fuel, passengers, and cargo. B) crew, usable fuel, oil, and fixed equipment. C) crew, passengers, usable fuel, oil, cargo, and fixed equipment.			
79. C01G AMG  What determines whether the value of a moment is preceded by a plus (+) or a minus (-) sign in aircraft weight and balance?  A) The location of the weight in reference to the datum.  B) The result of a weight being added or removed and its location relative to the datum.  C) The location of the datum in reference to the aircraft CG.			
		AMG ighing form?  AMG	

What tasks are completed prior to weighing an aircraft to determine its empty weight? A) Remove all items except those on the aircraft equipment list; drain fuel and hydraulic fluid. B) Remove all items on the aircraft equipment list; drain fuel, compute oil and hydraulic fluid C) Remove all items except those on the aircraft equipment list; drain fuel and fill hydraulic reservoir. 82. C01G **AMG** If it is necessary to weigh an aircraft with full fuel tanks, all fuel weight must be subtracted from the scale reading(s) A) except minimum fuel. B) including unusable fuel. C) except unusable fuel. 83. C01G **AMG** Which of the following can provide the empty weight of an aircraft if the aircraft's weight and balance records become lost, destroyed, or otherwise inaccurate? A) Reweighing the aircraft. B) The applicable Aircraft Specification or Type Certificate Data Sheet. C) The applicable flight manual or pilot's operating handbook. 84. C01G **AMG** Most modern aircraft are designed so that if all seats are occupied, full baggage weight is carried, and all fuel tanks are full, what will be the weight condition of the aircraft? A) It will be in excess of maximum takeoff weight. B) It will be at maximum basic operating weight (BOW). C) It will be at maximum taxi or ramp weight. 85. D01G **AMG** (1) Bonded clamps are used for support when installing metal tubing. (2) Unbonded clamps are used for support when installing wiring. Regarding the above statements, A) only No. 1 is true. B) both No. 1 and No. 2 are true. C) neither No. 1 nor No. 2 is true.

From the following sequences of steps, indicate the proper order you would use to make a single flare on a piece of tubing:

**AMG** 

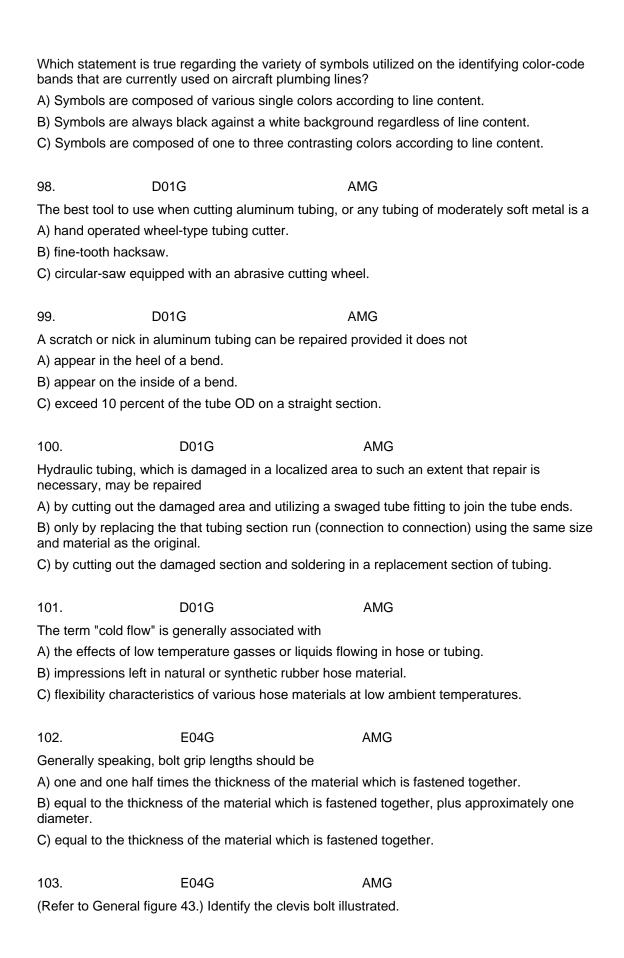
1. Place the tube in the proper size hole in the flaring block.

D01G

86.

2. Project the end of dime.	2. Project the end of the tube slightly from the top of the flaring tool, about the thickness of a dime.			
3. Slip the fitting nut and sleeve on the tube.				
	4. Strike the plunger several light blows with a lightweight hammer or mallet and turn the plunger one half turn after each blow.			
5. Tighten the clam	np bar securely to prevent slippag	e.		
6. Center the plung	ger or flaring pin over the tube.			
A) 1, 3, 5, 2, 4, 6.				
B) 3, 1, 6, 2, 5, 4.				
C) 3, 1, 2, 6, 5, 4.				
87.	D01G	AMG		
The primary purpos	se of providing suitable bends in t	fluid and pneumatic metal tubing runs is to		
A) clear obstacles	and make turns in aircraft structu	res.		
B) provide for acce	ess within aircraft structures.			
C) prevent excessi	ve stress on the tubing.			
88.	D01G	AMG		
	t should be selected for use with a ared tube ends and standard AN	1/2-inch aluminum oil lines which are to be nuts, sleeves, and fittings?		
B) AN-818-8.				
C) AN-818-5.				
,				
89.	D01G	AMG		
	fraulic systems, two piece tube control by the strain of the use o	onnectors consisting of a sleeve and a nut this type connector eliminates		
, .	ation prior to assembly.			
B) the possibility of process.	reducing the flare thickness by v	viping or ironing during the tightening		
C) wrench damage	to the tubing during the tightening	g process.		
90.	D01G	AMG		
Which of the follow	ring statements is/are correct in re	eference to flare fittings?		
1. AN fittings have	an identifying shoulder between t	the end of the threads and the flare cone.		
2. AC and AN fitting colors.	gs are considered identical excep	ot for material composition and identifying		
3. AN fittings are go	enerally interchangeable with AC	fittings of compatible material composition		
B) 1 and 3.	·			
C) 1, 2, and 3.				
, , , =================================				

91. D01G AMG Which tubings have the characteristics (high strength, abrasion resistance) ned				
Which tubings have the characteristics (high strength, abrasion resistance) necessary for use is a high pressure (3,000 PSI) hydraulic system for operation of landing gear and flaps?  A) 2024-T or 5052-0 aluminum alloy.  B) Corrosion resistant steel annealed or 1/4H.				
			C) 1100-1/2H or 3003-1/2H aluminum alloy.	
			92. D01G AMG	
			Flexible hose used in aircraft systems is classified in size according to the	
A) outside diameter.				
B) wall thickness.				
C) inside diameter.				
93. D01G AMG				
The material specifications for a certain aircraft require that a replacement oil lifted from 3/4-inch 0.072 5052-0 aluminum alloy tubing. What is the inside dimension				
A) 0.606 inch.				
B) 0.688 inch.				
C) 0.750 inch.				
o) on oo mom				
94. D01G AMG				
94. D01G AMG	system use.			
94. D01G AMG A gas or fluid line marked with the letters PHDAN is	system use.			
94. D01G AMG A gas or fluid line marked with the letters PHDAN is A) a dual-purpose pneumatic and/or hydraulic line for normal and emergency s	system use.			
94. D01G AMG A gas or fluid line marked with the letters PHDAN is A) a dual-purpose pneumatic and/or hydraulic line for normal and emergency s B) used to carry a hazardous substance.	system use.			
94. D01G AMG A gas or fluid line marked with the letters PHDAN is A) a dual-purpose pneumatic and/or hydraulic line for normal and emergency s B) used to carry a hazardous substance. C) a pneumatic or hydraulic system drain or discharge line.	system use.			
94. D01G AMG A gas or fluid line marked with the letters PHDAN is A) a dual-purpose pneumatic and/or hydraulic line for normal and emergency s B) used to carry a hazardous substance. C) a pneumatic or hydraulic system drain or discharge line.  95. D01G AMG In a metal tubing installation, A) rigid straight line runs are preferable.				
94. D01G AMG A gas or fluid line marked with the letters PHDAN is A) a dual-purpose pneumatic and/or hydraulic line for normal and emergency s B) used to carry a hazardous substance. C) a pneumatic or hydraulic system drain or discharge line.  95. D01G AMG In a metal tubing installation, A) rigid straight line runs are preferable. B) tension is undesirable because pressurization will cause it to expand and shared.				
94. D01G AMG A gas or fluid line marked with the letters PHDAN is A) a dual-purpose pneumatic and/or hydraulic line for normal and emergency s B) used to carry a hazardous substance. C) a pneumatic or hydraulic system drain or discharge line.  95. D01G AMG In a metal tubing installation, A) rigid straight line runs are preferable.				
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94. D01G AMG A gas or fluid line marked with the letters PHDAN is A) a dual-purpose pneumatic and/or hydraulic line for normal and emergency s B) used to carry a hazardous substance. C) a pneumatic or hydraulic system drain or discharge line.  95. D01G AMG In a metal tubing installation, A) rigid straight line runs are preferable. B) tension is undesirable because pressurization will cause it to expand and sh C) a tube may be pulled in line if the nut will start on the threaded coupling.				
94. D01G AMG  A gas or fluid line marked with the letters PHDAN is  A) a dual-purpose pneumatic and/or hydraulic line for normal and emergency s  B) used to carry a hazardous substance.  C) a pneumatic or hydraulic system drain or discharge line.  95. D01G AMG  In a metal tubing installation,  A) rigid straight line runs are preferable.  B) tension is undesirable because pressurization will cause it to expand and sh  C) a tube may be pulled in line if the nut will start on the threaded coupling.  96. D01G AMG				
94. D01G AMG A gas or fluid line marked with the letters PHDAN is A) a dual-purpose pneumatic and/or hydraulic line for normal and emergency s B) used to carry a hazardous substance. C) a pneumatic or hydraulic system drain or discharge line.  95. D01G AMG In a metal tubing installation, A) rigid straight line runs are preferable. B) tension is undesirable because pressurization will cause it to expand and sh C) a tube may be pulled in line if the nut will start on the threaded coupling.  96. D01G AMG Flexible lines must be installed with				
94. D01G AMG A gas or fluid line marked with the letters PHDAN is A) a dual-purpose pneumatic and/or hydraulic line for normal and emergency s B) used to carry a hazardous substance. C) a pneumatic or hydraulic system drain or discharge line.  95. D01G AMG In a metal tubing installation, A) rigid straight line runs are preferable. B) tension is undesirable because pressurization will cause it to expand and sh C) a tube may be pulled in line if the nut will start on the threaded coupling.  96. D01G AMG Flexible lines must be installed with A) enough slack to allow maximum flexing during operation.				



A) 1.		
B) 3.		
C) 2.		
104.	E04G	AMG
	raised dash on the head i	
A) AN corrosion re		3 classified as arr
B) NAS standard a		
C) NAS close tolera		
,		
105.	E04G	AMG
Where is an AN cle	evis bolt used in an airplan	e?
A) For tension and	shear load conditions.	
B) Where external	tension loads are applied.	
C) Only for shear lo	oad applications.	
106.	E04G	AMG
The aluminum code	e number 1100 identifies v	vhat type of aluminum?
A) Aluminum alloy	containing 11 percent cop	per.
B) Aluminum alloy	_	
C) 99 percent com	mercially pure aluminum.	
107.	E04G	AMG
	feature of the fiber type lo	
•	unthreaded fiber locking	
, •	<u> </u>	base of the load carrying section.
, .	• •	lightly smaller than those in the load carrying
section.		, ,
108.	E04G	AMG
Aircraft bolts are us	sually manufactured with a	l
A) class 1 fit for the	threads.	
B) class 2 fit for the		
C) class 3 fit for the	e threads.	
109.	E04G	AMG
		tightening aircraft nuts and bolts relate to
A) clean, dry thread		
B) clean, lightly oile		
C) both dry and ligh		

110.	E04G	AMG
		de markings shown identifies an AN
A) 1.		
B) 2.		
C) 3.		
111.	E04G	AMG
numerical index system designating chromium r	to identify the composition of molybdenum steel, the first digi	various steels. In the number '4130'
A) percentage of the ba	sic element in the alloy.	
, .	•	a percent.
C) basic alloying eleme	nt.	
112.	E04G	AMG
A fiber type, self locking	nut must never be used on ar	aircraft if the bolt is
A) under shear loading.		
B) under tension loading	g.	
C) subject to rotation.		
113.	E01G	AMG
Liquid penetrant inspec	tion methods may be used on	which of the following?
1. porous plastics.		
2. ferrous metals.		
<ul><li>2. ferrous metals.</li><li>3. nonferrous metals.</li></ul>		
<ol> <li>ferrous metals.</li> <li>nonferrous metals.</li> <li>smooth primer-sealed</li> </ol>	d wood.	
<ol> <li>ferrous metals.</li> <li>nonferrous metals.</li> <li>smooth primer-sealed</li> <li>nonporous plastics.</li> </ol>	d wood.	
<ol> <li>ferrous metals.</li> <li>nonferrous metals.</li> <li>smooth primer-sealed</li> <li>nonporous plastics.</li> <li>2, 3, 4.</li> </ol>	d wood.	
<ol> <li>ferrous metals.</li> <li>nonferrous metals.</li> <li>smooth primer-sealed</li> <li>nonporous plastics.</li> <li>2, 3, 4.</li> <li>1, 2, 3.</li> </ol>	d wood.	
<ol> <li>ferrous metals.</li> <li>nonferrous metals.</li> <li>smooth primer-sealed</li> <li>nonporous plastics.</li> <li>2, 3, 4.</li> </ol>	d wood.	
<ol> <li>ferrous metals.</li> <li>nonferrous metals.</li> <li>smooth primer-sealed</li> <li>nonporous plastics.</li> <li>2, 3, 4.</li> <li>1, 2, 3.</li> </ol>	d wood. E01G	AMG
<ol> <li>ferrous metals.</li> <li>nonferrous metals.</li> <li>smooth primer-sealed</li> <li>nonporous plastics.</li> <li>2, 3, 4.</li> <li>1, 2, 3.</li> <li>2, 3, 5.</li> </ol>	E01G t is generally used in magnetic	
<ol> <li>ferrous metals.</li> <li>nonferrous metals.</li> <li>smooth primer-sealed.</li> <li>nonporous plastics.</li> <li>2, 3, 4.</li> <li>1, 2, 3.</li> <li>2, 3, 5.</li> </ol>	E01G t is generally used in magnetic that has	
<ol> <li>ferrous metals.</li> <li>nonferrous metals.</li> <li>smooth primer-sealed.</li> <li>nonporous plastics.</li> <li>2, 3, 4.</li> <li>1, 2, 3.</li> <li>2, 3, 5.</li> </ol> 114. The testing medium that ferromagnetic material to the sealed of the sealed	E01G It is generally used in magnetic that has d low retentivity.	
<ol> <li>ferrous metals.</li> <li>nonferrous metals.</li> <li>smooth primer-sealed.</li> <li>nonporous plastics.</li> <li>2, 3, 4.</li> <li>1, 2, 3.</li> <li>2, 3, 5.</li> </ol> The testing medium that ferromagnetic material to A) high permeability and	E01G t is generally used in magnetic that has d low retentivity. high retentivity.	
<ol> <li>ferrous metals.</li> <li>nonferrous metals.</li> <li>smooth primer-sealed.</li> <li>nonporous plastics.</li> <li>2, 3, 4.</li> <li>1, 2, 3.</li> <li>2, 3, 5.</li> <li>the testing medium that ferromagnetic material to A) high permeability and B) low permeability and</li> </ol>	E01G t is generally used in magnetic that has d low retentivity. high retentivity.	
	corrosion resistant stee A) 1. B) 2. C) 3.  111. The Society of Automot numerical index system designating chromium r A) percentage of the ba B) percentage of carbon C) basic alloying eleme  112. A fiber type, self locking A) under shear loading. B) under tension loading. C) subject to rotation.	corrosion resistant steel bolt?  A) 1.  B) 2.  C) 3.  111.  E04G  The Society of Automotive Engineers (SAE) and the Anumerical index system to identify the composition of designating chromium molybdenum steel, the first digit A) percentage of the basic element in the alloy.  B) percentage of carbon in the alloy in hundredths of a C) basic alloying element.  112.  E04G  A fiber type, self locking nut must never be used on an A) under shear loading.  B) under tension loading.  C) subject to rotation.  113.  E01G  Liquid penetrant inspection methods may be used on a selection of the composition of the properties of the

<ul><li>A) Eddy current test.</li><li>B) Metallic ring test.</li><li>C) Ultrasonic test.</li></ul>		
116. How many of these fact 1. Processing of the film 2. Material thickness ar 3. Exposure distance at 4. Film characteristics. A) One. B) Three. C) Four.	nd density.	AMG nowledge for x ray exposure?
117. On a fillet weld, the per thickness? A) 100 percent. B) 25 to 50 percent. C) 60 to 80 percent.	E05G netration requirement includes v	AMG what percentage(s) of the base metal
A) Reweld the defective B) Remove all the old w		AMG  Id. What action should be taken?  Id all gaps/holes.
119. (Refer to General figure A) Fillet. B) Butt. C) Lap.	E05G e 45.) What type weld is shown	AMG at A?
120. One characteristic of a distance from the weld A) 1/2 inch. B) 1 inch.		AMG uld be formed on the base metal at a

A mechanic has completed a bonded honeycomb repair using the potted compound repair technique. What nondestructive testing method is used to determine the soundness of the repair after the repair has cured?

C) 1/4 inch.		
121. (Refer to General figure) A) 3. B) 2. C) 4.	E05G re 44.) Select the illustration wh	AMG hich depicts a cold weld.
122.	E05G	AMG
A) So that accurate vi     B) In order to gain fan     used.	sual (pictorial) comparisons car	que, filler material, and temperature range
123.	E03G	AMG
room temperature, su  1. The metals become  2. The metals become	ch as rolling, hammering, or be	Ç
124.	E03G	AMG
A) has little or no effective B) can significantly alt	at treated metal, such as with a ct on a metal's heat treated cha er a metal's properties in the re enhancement effect on the origi	aracteristics. eheated area.
A) Rapid cooling; high B) Slow cooling; low s	strength.	AMG during and after it has been annealed?
126. Which material canno A) Unclad aluminum a	E03G t be heat treated repeatedly wit alloy in sheet form.	AMG thout harmful effects?

B) 6061-T9 sta C) Clad alumin		
127.	E03G	AMG
		rformed when the surface of the metal is changed
A) Tempering.	ntroducing a high carbide or	nitide content?
B) Normalizing		
C) Case harde		
128.	E02G	AMG
		etrant inspection should be cleaned with
•	troleum base solvent.	etrant inspection should be cleaned with
B) the penetrar		
C) water base	solvents only.	
129.	E02G	AMG
	a dye penetrant inspection, the	
	surface crack to indicate th	·
, .	otter to produce a visible ind	·
C) thoroughly of	cleans the surface prior to in	spection.
130.	E02G	AMG
The pattern for	an inclusion is a magnetic p	particle buildup forming
A) a fernlike pa	attern.	
B) a single line		
C) parallel lines	5.	
131.	E02G	AMG
What two types	s of indicating mediums are	available for magnetic particle inspection?
A) Iron and fer		
,	process materials.	
C) High retenti	vity and low permeability ma	iterial.
132.	E02G	AMG
One way a par	t may be demagnetized afte	r magnetic particle inspection is by
, ,	ne part to high voltage, low a	•
, -	• ,	netic field of sufficient strength.
C) slowly movi	ng tne part into an ac magne	etic field of sufficient strength.

133.	E02G	AMG	
	In magnetic particle inspection, a flaw that is perpendicular to the magnetic field flux lines generally causes		
A) a large disru	A) a large disruption in the magnetic field.		
B) a minimal di	isruption in the magnetic	field.	
C) no disruptio	n in the magnetic field.		
	· ·		
134.	E02G	AMG	
Circular magne	etization of a part can be	used to detect which defects?	
A) Defects para	allel to the long axis of the	e part.	
B) Defects per	pendicular to the long axi	s of the part.	
C) Defects per	pendicular to the concent	ric circles of magnetic force within the part.	
135.	E02G	AMG	
Under magneti which condition		art will be identified as having a fatigue crack under	
A) The discont	inuity pattern is straight.		
B) The discont	inuity is found in a nonstr	essed area of the part.	
C) The discont	tinuity is found in a highly	stressed area of the part.	
136.	E02G	AMG	
Which of the fo		AMG suitable to use to detect cracks open to the surface in	
Which of the fo	ollowing methods may be ings and castings?	-	
Which of the for aluminum forgion 1. Dye penetra	ollowing methods may be ings and castings?	-	
Which of the for aluminum forging 1. Dye penetra 2. Magnetic pa	ollowing methods may be ings and castings? ant inspection.	-	
Which of the for aluminum forging 1. Dye penetra 2. Magnetic pa	ollowing methods may be ings and castings? ant inspection. article inspection. (coin tap) inspection.	-	
Which of the for aluminum forging 1. Dye penetra 2. Magnetic pa 3. Metallic ring	ollowing methods may be ings and castings? ant inspection. article inspection. (coin tap) inspection.	-	
Which of the for aluminum forgith. Dye penetra 2. Magnetic pa 3. Metallic ring 4. Eddy curren	ollowing methods may be ings and castings? ant inspection. article inspection. (coin tap) inspection. at inspection.	-	
Which of the for aluminum forging 1. Dye penetra 2. Magnetic pa 3. Metallic ring 4. Eddy curren 5. Ultrasonic in	ollowing methods may be ings and castings? ant inspection. article inspection. (coin tap) inspection. at inspection.	-	
Which of the for aluminum forgith. Dye penetrated. Magnetic paragrams. Metallic ringth 4. Eddy currents. Ultrasonic in 6. Visual inspe	ollowing methods may be ings and castings? ant inspection. article inspection. (coin tap) inspection. at inspection. aspection. aspection.	-	
Which of the for aluminum forging 1. Dye penetra 2. Magnetic pa 3. Metallic ring 4. Eddy curren 5. Ultrasonic in 6. Visual inspe A) 1, 4, 5, 6.	ollowing methods may be ings and castings? ant inspection. article inspection. (coin tap) inspection. at inspection. aspection. aspection.	-	
Which of the for aluminum forging 1. Dye penetra 2. Magnetic pa 3. Metallic ring 4. Eddy curren 5. Ultrasonic in 6. Visual inspe A) 1, 4, 5, 6. B) 1, 2, 4, 5, 6.	ollowing methods may be ings and castings? ant inspection. article inspection. (coin tap) inspection. at inspection. aspection. action. action.	suitable to use to detect cracks open to the surface in	
Which of the for aluminum forging 1. Dye penetra 2. Magnetic pa 3. Metallic ring 4. Eddy curren 5. Ultrasonic in 6. Visual inspe A) 1, 4, 5, 6. B) 1, 2, 4, 5, 6. C) 1, 2, 3, 4, 5, 137.	ollowing methods may be ings and castings? ant inspection. article inspection. (coin tap) inspection. at inspection. aspection. action. action. action. action. action. action. action.	suitable to use to detect cracks open to the surface in	
Which of the for aluminum forging 1. Dye penetra 2. Magnetic pa 3. Metallic ring 4. Eddy curren 5. Ultrasonic in 6. Visual inspe A) 1, 4, 5, 6. B) 1, 2, 4, 5, 6. C) 1, 2, 3, 4, 5, 137.	ollowing methods may be ings and castings? ant inspection. article inspection. (coin tap) inspection. at inspection. aspection. action. action. action. action. action. action. action.	suitable to use to detect cracks open to the surface in	
Which of the for aluminum forging of the formal sum of the formal	ollowing methods may be ings and castings? ant inspection. article inspection. (coin tap) inspection. at inspection. aspection. aspection. action. action. bection. bection. action. bection. be	suitable to use to detect cracks open to the surface in	
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Which of the for aluminum forging of the formal sum of the formal	ollowing methods may be ings and castings? ant inspection. article inspection. (coin tap) inspection. at inspection. aspection. action. action. action. be used to measure the or.	suitable to use to detect cracks open to the surface in	

138.	E06G	AMG
The side clearances	s of piston rings are measure	ed with a
A) micrometer calip	er gauge.	
B) thickness gauge.		
C) dial gauge.		
139.	E06G	AMG
Which number repre	esents the vernier scale grad	duation of a micrometer?
A) .00001.		
B) .001.		
C) .0001.		
140.	E06G	AMG
(Refer to General fig	gure 48.) What does the mic	rometer read?
A) .2974.		
B) .3004.		
C) .3108.		
141.	E06G	AMG
(Refer to General fig	gure 49.) The measurement	reading on the micrometer is
A) .2758.		
B) .2702.		
C) .2792.		
4.40	5000	4440
142.	E06G	AMG
What precision mea of round wear?	asuring tool is used for meas	uring crankpin and main bearing journals for out
A) Dial gauge.		
B) Micrometer calip	er.	
C) Depth gauge.		
143.	E06G	AMG
How can the dimens	sional inspection of a bearing	g in a rocker arm be accomplished?
A) Depth gauge and	d micrometer.	
B) Thickness gauge	e and push-fit arbor.	
C) Telescopic gaug	e and micrometer.	
144.	E06G	AMG
What may be used	to check the stem on a popp	et-type valve for stretch?

<ul><li>A) Dial indicator.</li><li>B) Micrometer.</li></ul>		
C) Telescoping gauge.		
<ul><li>145.</li><li>The color of 100LL fuel</li><li>A) blue.</li><li>B) colorless or straw.</li><li>C) red.</li></ul>	F02G is	AMG
<ul><li>146.</li><li>What must accompany</li><li>A) An absorption of hea</li><li>B) A decrease in vapor</li><li>C) A reduction in volum</li></ul>	pressure.	AMG
<ul><li>147.</li><li>A fuel that vaporizes too</li><li>A) hard starting.</li><li>B) detonation.</li><li>C) vapor lock.</li></ul>	F02G o readily may cause	AMG
148. The main differences be A) volatility and lead co B) volatility, lead conter C) lead content and col	nt, and color.	AMG fuel are
A) retard the formation	e's performance in the engine.	AMG
<ul><li>150.</li><li>How are aviation fuels,</li><li>A) According to the mill</li><li>B) By reference to norm</li><li>C) By performance num</li></ul>	iliters of lead. nal heptane.	AMG ock qualities than 100 octane, classified?

151.	F01G	AMG	
What effect, if a	any, will aviation gasoline	e mixed with jet fuel have on a turbine engine?	
A) No appreciable effect.			
B) The tetraethyl lead in the gasoline forms deposits on the turbine blades.			
C) The tetraeth	C) The tetraethyl lead in the gasoline forms deposits on the compressor blades.		
152.	F01G	AMG	
When towing a	large aircraft		
A) a person sho	ould be in the cockpit to	watch for obstructions.	
B) persons sho	uld be stationed at the r	nose, each wingtip, and the empennage at all times.	
C) a person sho	ould be in the cockpit to	operate the brakes.	
153.	F01G	AMG	
	•	vhile taxiing, it is important to	
A) test the brak	es.		
,	tor the instruments.		
C) notify the co	ntrol tower.		
154.	F01G	AMG	
		ring tailwind, the elevators and	
_	on should be held in the	-	
, ·	on should be held in the		
C) both ailerons	s should be kept in the r	eutral position.	
155.	F01G	AMG	
A person should is running in ord		elicopter in the pilot's field of vision whenever the engine	
A) the tail rotor.			
B) the main roto	or.		
C) blowing dust	or debris caused by rot	or downwash.	
156.	F01G	AMG	
Which statemen	nt(s) is/are true regardin	g tiedown of small aircraft?	
1. Manila (hemp	o) rope has a tendency	to stretch when it gets wet.	
•	ron rope is preferred to	·	
		wind in order to eliminate or minimize wing lift.	
	sewheel or tailwheel un	locked.	
A) 1, 2, 3, and 4	4.		

B) 1 and 2.

C) 2.		
157.	F01G	AMG
Which of the fo intake fire?	llowing is the most satisfac	ctory extinguishing agent for use on a carburetor or
A) Dry chemica	ıl.	
B) A fine, water	r mist.	
C) Carbon diox	ide.	
158.	F01G	AMG
	ne has been shut down for t two revolutions to	more than 30 minutes, the propeller should be rotate
A) check for hy	draulic lock.	
B) check for lea	aks.	
C) prime the en	igine.	
159.	F01G	AMG
The priming of control lever in		opposed engine is accomplished by placing the fue
A) IDLE CUTO	FF position.	
B) AUTO RICH	position.	
C) FULL RICH	position.	
160.	F01G	AMG
How is a floode	ed engine, equipped with a	float type carburetor, cleared of excessive fuel?
		hand, with the mixture control in cutoff, ignition switel charge has been cleared.
B) Turn off the cleared.	fuel and the ignition. Disco	ontinue the starting attempt until the excess fuel has
		hand, with the mixture control in cutoff, ignition swit
	ottie fully open, until the ex	cess fuel has cleared or until the engine starts.
	F01G	cess fuel has cleared or until the engine starts.  AMG
on, and the thro	F01G n an induction fire occurs	
on, and the through the second of action on the second of action of action of action on the second of action on the second of action	F01G in an induction fire occurs in should be to	AMG
on, and the through the second of the second	F01G in an induction fire occurs in should be to	AMG during starting of a reciprocating engine, the first stinguisher into the air intake of the engine.
on, and the through the second of the second	F01G In an induction fire occurs on should be to arbon dioxide from a fire example.	AMG during starting of a reciprocating engine, the first stinguisher into the air intake of the engine.
on, and the through the course of action A) discharge carbon continue cra	F01G In an induction fire occurs on should be to arbon dioxide from a fire example.	AMG during starting of a reciprocating engine, the first stinguisher into the air intake of the engine.

<ul><li>A) Hung start.</li><li>B) Cold start.</li><li>C) Hot start.</li></ul>		
163.	G01G	AMG
	owing are acceptable to u ing agents on aircraft?	se when utilizing chemical cleaning and/or
•	r wiping cloths when using a riping cloths when using a ay equipment.	,
0) 1.		
164.	G01G	AMG
A) applying a thi B) chemical surf	n coat of zinc chromate p	aged in service, it can be partially restored by rimer.
165.	G01G	AMG
used when wash A) hydrogen em B) hydrogen em	n why ordinary or otherwishing aircraft is because the brittlement in metal structe brittlement in nonmetallichility to remove compound	ures. materials.
166.	G01G	AMG
Fayed surfaces A) forming passi B) entrapping co	cause concern in chemica	al cleaning because of the danger of
<ul><li>167.</li><li>Which of these r</li><li>A) Zinc.</li><li>B) 2024 aluminu</li><li>C) Stainless stee</li></ul>	-	AMG odic?

168.	G02G	AMG			
	Why is it important not to rotate the crankshaft after the corrosion preventive mixture has been put into the cylinders on engines prepared for storage?				
A) Engine dama	age can occur from hydr	aulic lock.			
B) Fuel may be mixture.	drawn into one or more	cylinders and dilute or wash off the corrosion preventive			
C) The seal of c	orrosion preventive mix	ture will be broken.			
169.	G02G	AMG			
What should be tire?	done to prevent rapid of	leterioration when oil or grease come in contact with a			
A) Wipe the tire	thoroughly with a dry cl	oth, and then rinse with clean water.			
B) Wipe the tire	with a dry cloth followe	d by a washdown and rinse with soap and water.			
C) Wipe the tire cloth.	with a cloth dampened	with aromatic naphtha and then wipe dry with a clean			
170.	G02G	AMG			
A primary cause	e of intergranular corros	ion is			
A) improper hea	at treatment.				
B) dissimilar me	etal contact.				
C) improper app	olication of primer.				
171.	G02G	AMG			
One way of obta	aining increased resista	nce to stress corrosion cracking is by			
,	•	neat treatment) on the metal surface.			
,		hot peening) on the metal surface.			
C) producing no	nuniform deformation w	hile cold working during the manufacturing process.			
172.	G02G	AMG			
	Spilled mercury on aluminum				
	A) greatly increases susceptibility to hydrogen embrittlement.				
<ul><li>B) may cause impaired corrosion resistance if left in prolonged contact.</li><li>C) causes rapid and severe corrosion that is very difficult to control.</li></ul>					
C) causes rapid	and severe corrosion to	nat is very difficult to control.			
173.	G02G	AMG			
What may be used to remove corrosion from highly stressed steel surfaces?					
•	A) Steel wire brushes.				
B) Fine grit alum					
C) Medium grit carborundum paper.					

174.	G02G	AMG			
Fretting corr	osion is most likely to occur				
A) when two	A) when two surfaces fit tightly together but can move relative to one another.				
B) only wher	n two dissimilar metals are in o	contact.			
C) when two	surfaces fit loosely together a	and can move relative to one anothe	er.		
175.	G02G	AMG			
Which of the	e listed conditions is NOT one	of the requirements for corrosion to	occur?		
A) The prese	ence of an electrolyte.				
B) Electrical	contact between an anodic ar	ea and a cathodic area.			
C) The prese	ence of a passive oxide film.				
470	0000	4440			
176.	G02G	AMG			
	olytic chemical treatment for al g qualities is called	uminum alloys to increase corrosior	n resistance and		
A) anodizing	J.				
B) alodizing.					
C) dichroma	ting.				
177.	G02G	AMG			
		ble even by careful visual inspection	o of the surface of		
	loy parts or structures?	sic even by dareral visual inspection	Tor the surface of		
A) Filiform co	orrosion.				
B) Intergrand	ular corrosion.				
C) Uniform e	etch corrosion.				
178.	H02G	AMG			
-	er shaped fuel tank measures : pth. How many gallons will the	27-1/2 inches in length, 3/4 foot in vertank contain?	vidth, and 8-1/4		
(231 cu. in. =	= 1 gal.)				
A) 7.366					
B) 8.83					
C) 170.156					
179.	H02G	AMG			
(Refer to Ge	neral figure 56.) Compute the	area of the trapezoid.			
A) 24 square		• • •			
B) 48 square					
C) 10 square					
•					

400	11000	ANAC
180.	H02G	AMG
what is the piston displestroke of 4 inches?	acement of a master cylinder w	vith a 1.5-inch diameter bore and a piston
A) 9.4247 cubic inches.		
B) 7.0686 cubic inches.		
C) 6.1541 cubic inches.		
181.	H02G	AMG
the piston on bottom ce	•	78 inches and is 8.5 inches deep. With sures 4.0 inches from the bottom of the of this engine?
A) 200 cubic inches.		
B) 360 cubic inches.		
C) 235 cubic inches.		
182.	H02G	AMG
What force is exerted o inches and the fluid pre		der if the area of the piston is 1.2 square
A) 1,020 pounds.		
B) 960 pounds.		
C) 850 pounds.		
, ,		
183.	H02G	AMG
What size sheet of meta diameter?	al is required to fabricate a cylir	nder 20 inches long and 8 inches in
(Note: C = pi x D)		
A) 20 inches x 25-5/32	inches.	
B) 20 inches x 24-9/64		
C) 20 inches x 25-9/64		
184.	H02G	AMG
(Refer to the figure 71.)	What is the volume of a spher	e with a radius of 4.5 inches?
A) 47.71 cubic inches		
B) 381.7 square inches		
C) 381.7 cubic inches		
C) 301.7 Cubic inches		
185.	H01G	AMG
Find the square root of		
A) 111.8 x 10 to the thir		
B) .1118 x 10 to the neg	•	
	gativo occoria povedi.	

C) 1,118 x 10 to the ne	gative second power.	
186.	H01G	AMG
Which of the figures is	using scientific notation?	
A) 1.		
B) 2.		
C) both 1 and 2.		
187.	H01G	AMG
(Refer to the figure 69.)	Solve the equation.	
A) 12.		
B) 60.		
C) 76.		
188.	H01G	AMG
A) 1.	) Which alternative answer is ed	qual to 5.59?
B) 2.		
C) 3.		
0) 3.		
189.	H04G	AMG
(Refer to General figure	e 60.) Solve the equation.	
A) 11.9		
B) 11.7		
C) 11.09		
190.	H04G	AMG
		AIVIG
	e 59.) Solve the equation.	
A) +31.25		
B) -5.20 C) -31.25		
C) -31.25		
191.	H03G	AMG
	der with the piston at bottom ce ic inches, then the compression	nter is 84 cubic inches and the piston ratio is
A) 7:1	•	
B) 1.2:1		
C) 6:1		
192.	H03G	AMG

A) 200. B) 31,250. C) 9,375.  193. H03G AMG How much current does a 30-volt 1/2-horsepower motor that is 85-percent efficient draw from the bus?  (Note: 1 horsepower = 746 watts) A) 14.6 amperes. B) 12.4 amperes. C) 14.3 amperes. C) 14.3 amperes.  194. H03G AMG Maximum life for a certain part is 1100 hours. Recently, 15 of these parts were removed from different aircraft with an average life of 835.3 hours. What percent of the maximum part life has been achieved? A) 75.9 percent. B) 76.9 percent. C) 75.0 percent.  195. l02G AMG What is/are the appropriate action(s) concerning minor repairs performed on a certificated aircraft?  1. FAA Form 337's must be completed. 2. Entries must be made in the aircraft's maintenance record. 3. The owner of the aircraft must submit a record of all minor repairs to the FAA at least annually. A) 1 and 2. B) 2. C) 2 and 3.	An airplane flying a dis need to travel 2,500 m		allons of gasoline. How many gallons will it
C) 9,375.  193. H03G AMG  How much current does a 30-volt 1/2-horsepower motor that is 85-percent efficient draw from the bus?  (Note: 1 horsepower = 746 watts) A) 14.6 amperes. B) 12.4 amperes. C) 14.3 amperes. C) 14.3 amperes.  194. H03G AMG  Maximum life for a certain part is 1100 hours. Recently, 15 of these parts were removed from different aircraft with an average life of 835.3 hours. What percent of the maximum part life has been achieved? A) 75.9 percent. B) 76.9 percent. C) 75.0 percent.  195. 102G AMG  What is/are the appropriate action(s) concerning minor repairs performed on a certificated aircraft?  1. FAA Form 337's must be completed. 2. Entries must be made in the aircraft's maintenance record. 3. The owner of the aircraft must submit a record of all minor repairs to the FAA at least annually. A) 1 and 2. B) 2.	A) 200.		
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How much current does a 30-volt 1/2-horsepower motor that is 85-percent efficient draw from the bus?  (Note: 1 horsepower = 746 watts) A) 14.6 amperes. B) 12.4 amperes. C) 14.3 amperes.  194. Ho3G AMG  Maximum life for a certain part is 1100 hours. Recently, 15 of these parts were removed from different aircraft with an average life of 835.3 hours. What percent of the maximum part life has been achieved? A) 75.9 percent. B) 76.9 percent. C) 75.0 percent.  195. I02G AMG  What is/are the appropriate action(s) concerning minor repairs performed on a certificated aircraft?  1. FAA Form 337's must be completed. 2. Entries must be made in the aircraft's maintenance record. 3. The owner of the aircraft must submit a record of all minor repairs to the FAA at least annually. A) 1 and 2. B) 2.			
the bus?  (Note: 1 horsepower = 746 watts) A) 14.6 amperes. B) 12.4 amperes. C) 14.3 amperes.  194. H03G AMG  Maximum life for a certain part is 1100 hours. Recently, 15 of these parts were removed from different aircraft with an average life of 835.3 hours. What percent of the maximum part life has been achieved? A) 75.9 percent. B) 76.9 percent. C) 75.0 percent.  195. I02G AMG  What is/are the appropriate action(s) concerning minor repairs performed on a certificated aircraft?  1. FAA Form 337's must be completed. 2. Entries must be made in the aircraft's maintenance record. 3. The owner of the aircraft must submit a record of all minor repairs to the FAA at least annually. A) 1 and 2. B) 2.	193.	H03G	AMG
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B) 12.4 amperes. C) 14.3 amperes.  194. H03G AMG  Maximum life for a certain part is 1100 hours. Recently, 15 of these parts were removed from different aircraft with an average life of 835.3 hours. What percent of the maximum part life has been achieved? A) 75.9 percent. B) 76.9 percent. C) 75.0 percent.  195. l02G AMG  What is/are the appropriate action(s) concerning minor repairs performed on a certificated aircraft?  1. FAA Form 337's must be completed. 2. Entries must be made in the aircraft's maintenance record. 3. The owner of the aircraft must submit a record of all minor repairs to the FAA at least annually. A) 1 and 2. B) 2.	(Note: 1 horsepower =	: 746 watts)	
C) 14.3 amperes.  194. H03G AMG  Maximum life for a certain part is 1100 hours. Recently, 15 of these parts were removed from different aircraft with an average life of 835.3 hours. What percent of the maximum part life has been achieved?  A) 75.9 percent.  B) 76.9 percent.  C) 75.0 percent.  195. I02G AMG  What is/are the appropriate action(s) concerning minor repairs performed on a certificated aircraft?  1. FAA Form 337's must be completed. 2. Entries must be made in the aircraft's maintenance record. 3. The owner of the aircraft must submit a record of all minor repairs to the FAA at least annually.  A) 1 and 2.  B) 2.	A) 14.6 amperes.		
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B) 76.9 percent.  C) 75.0 percent.  195. I02G AMG  What is/are the appropriate action(s) concerning minor repairs performed on a certificated aircraft?  1. FAA Form 337's must be completed. 2. Entries must be made in the aircraft's maintenance record. 3. The owner of the aircraft must submit a record of all minor repairs to the FAA at least annually.  A) 1 and 2.  B) 2.	different aircraft with a		
C) 75.0 percent.  195. I02G AMG  What is/are the appropriate action(s) concerning minor repairs performed on a certificated aircraft?  1. FAA Form 337's must be completed. 2. Entries must be made in the aircraft's maintenance record. 3. The owner of the aircraft must submit a record of all minor repairs to the FAA at least annually. A) 1 and 2. B) 2.	A) 75.9 percent.		
195. IO2G AMG What is/are the appropriate action(s) concerning minor repairs performed on a certificated aircraft?  1. FAA Form 337's must be completed. 2. Entries must be made in the aircraft's maintenance record. 3. The owner of the aircraft must submit a record of all minor repairs to the FAA at least annually. A) 1 and 2. B) 2.	B) 76.9 percent.		
What is/are the appropriate action(s) concerning minor repairs performed on a certificated aircraft?  1. FAA Form 337's must be completed. 2. Entries must be made in the aircraft's maintenance record. 3. The owner of the aircraft must submit a record of all minor repairs to the FAA at least annually. A) 1 and 2. B) 2.	C) 75.0 percent.		
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<ol> <li>1. FAA Form 337's must be completed.</li> <li>2. Entries must be made in the aircraft's maintenance record.</li> <li>3. The owner of the aircraft must submit a record of all minor repairs to the FAA at least annually.</li> <li>A) 1 and 2.</li> <li>B) 2.</li> </ol>	195.	102G	AMG
<ol> <li>Entries must be made in the aircraft's maintenance record.</li> <li>The owner of the aircraft must submit a record of all minor repairs to the FAA at least annually.</li> <li>A) 1 and 2.</li> <li>B) 2.</li> </ol>		oriate action(s) concerning mir	nor repairs performed on a certificated
<ol> <li>Entries must be made in the aircraft's maintenance record.</li> <li>The owner of the aircraft must submit a record of all minor repairs to the FAA at least annually.</li> <li>A) 1 and 2.</li> <li>B) 2.</li> </ol>	1. FAA Form 337's mu	ist be completed.	
<ul><li>3. The owner of the aircraft must submit a record of all minor repairs to the FAA at least annually.</li><li>A) 1 and 2.</li><li>B) 2.</li></ul>	2. Entries must be made	de in the aircraft's maintenanc	e record.
B) 2.	3. The owner of the air		
	A) 1 and 2.		
C) 2 and 3.	B) 2.		
	C) 2 and 3.		
196. I02G AMG	196.	102G	AMG
An FAA Form 337 is used to record and document	An FAA Form 337 is u	sed to record and document	
A) preventive and unscheduled maintenance, and special inspections.			
B) major and minor repairs, and major and minor alterations.			
C) major repairs and major alterations.	C) major repairs and n	najor alterations.	

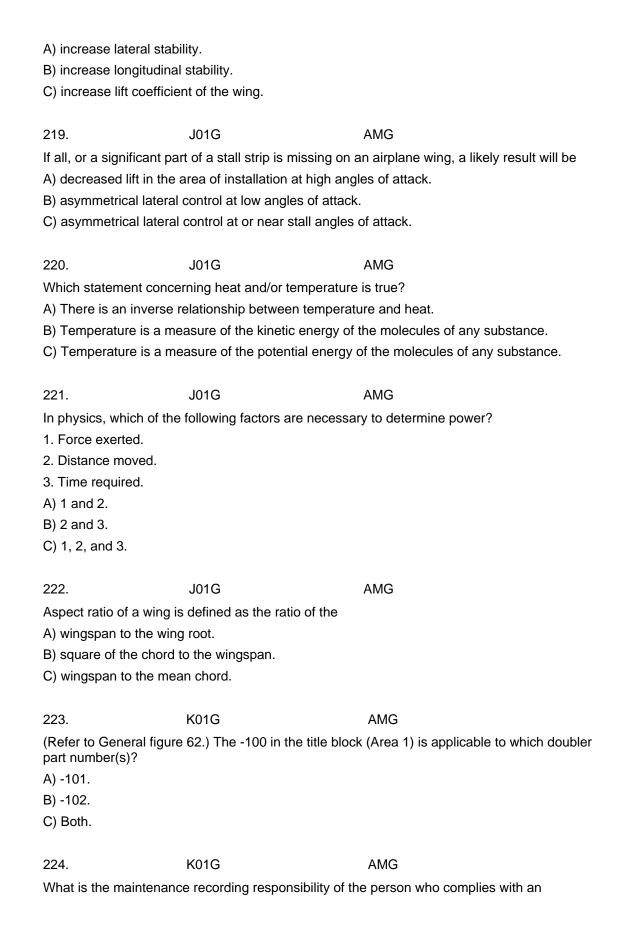
197.	102G	AMG			
• • •	When approving for return to service after maintenance or alteration, the approving person must enter in the maintenance record of the aircraft				
data) of work pe		n was begun, a description (or reference to acceptable e person performing the work (if someone else),			
		able data) of work performed, date of completion, the (if someone else), signature, and certificate number.			
	rson performing the work	able data) of work performed, date of completion, the (if someone else), signature, certificate number, and			
198.	102G	AMG			
return to service		discrepancies on an aircraft that was not approved for ion. Which of the following statements is/are true ancies?			
1. Only a mech	anic with an inspection a	uthorization.			
2. An appropria	tely rated mechanic.				
3. Any certificat	ted repair station.				
A) 1.					
B) 2 .					
C) 2 & 3.					
199.	102G	AMG			
	rated under part 91, which til the work is repeated o	ch of the following records must be retained for at least r superseded?			
A) Records of time since overhaul of items requiring overhaul on a time specified basis.					
,	B) Records of maintenance, alterations, preventive maintenance, 100-hour, annual, and progressive inspections.				
C) Records of t inspection.	he current inspection sta	tus of the aircraft, including time since last required			
200.	102G	AMG			
A certificated m FAA Form 337		ection authorization who signs the appropriate block on			
A) Certifying that the work was done in accordance with the requirements of 14 CFR part 43.					
B) Approving the work for return to service.					
C) Certifying the maintenance information used as FAA-approved data.					
201	I02G	AMG			

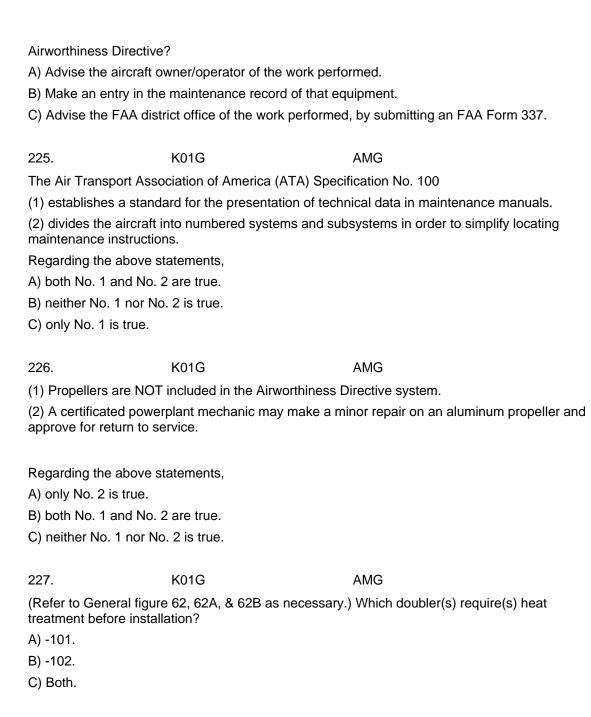
In order to reconstruct lost or destroyed aircraft maintenance records, what is it necessary to establish?

A) Dates of all i	maintenance, preventive n	naintenance, and alterations.
B) Dates and/o	r times of all 100-hour, and	nual, or progressive inspections.
C) Total time-in	-service of the airframe.	
202.	102G	AMG
What is the star service?	tus of data used as a basis	s for approving major repairs or alterations for return to
A) Data must b	e least FAA-acceptable wi	hen it is used for that purpose.
B) Data must b	e FAA-approved prior to it	s use for that purpose.
C) Data may be	e FAA-approved after its u	se for that purpose.
203.	I01G	AMG
Which is an app	oliance major repair?	
A) Overhaul of	a hydraulic pressure pump	р.
B) Repairs to a	propeller governor or its o	control.
C) Troubleshoo	ting and repairing broken	circuits in landing light circuits.
204.	I01G	AMG
		n done satisfactorily, the signature of an authorized naintenance or alterations performed constitutes
A) approval of t	he aircraft for return to ser	rvice.
B) approval for	return to service only for t	he work performed.
C) verification t maintenance da		terations were performed referencing approved
205.	101G	AMG
Where is the re bulletins norma		irworthiness Directives or manufacturers' service
A) FAA Form 3	37.	
B) Aircraft main	itenance records.	
C) Flight manua	al.	
206.	101G	AMG
Where should y	ou find this entry?	
		noved skin from outer 6 feet. Repaired buckled spar ure 8 in the manufacturer's structural repair manual No
A) Aircraft engi	ne maintenance record.	
B) Aircraft mind	or repair and alteration reco	ord.
C) FAA Form 3	37	

207.	I01G	AMG			
Which maintenance record entry best describes the action taken for a .125-inch deep dent in a straight section of $1/2$ -inch aluminum alloy tubing?					
A) Dent within acc	eptable limits, repair r	not necessary.			
B) Dented section	removed and replace	d with identical new tubing flared to 45°.			
C) Dented section	removed and replace	ed with identical new tubing flared to 37°.			
208.	I01G	AMG			
		equirements for maintenance record format?			
<ul><li>A) Any format that used.</li></ul>	provides record cont	inuity and includes the required information may be			
B) The format prov	vided by the manufact	turer of the aircraft must be retained.			
C) Any desired characteristic Aviation Administr		rer provided format requires approval from the Federal			
209.	I01G	AMG			
For aircraft operate maintenance reco	•	en is aircraft total time required to be recorded in aircraft			
A) After satisfactor alteration (except		nance, preventive maintenance, rebuilding, and			
` .	rily completing inspec	tions.			
,	rily completing mainte	enance, preventive maintenance, rebuilding, and			
aiteration (includin	ig inspections).				
210.	J01G	AMG			
•	of a confined liquid is	held constant and its pressure is tripled, the volume will			
A) triple.	and third its original ve	Numa			
C) remain the sam	one third its original vo	nume.			
o) remain the sair					
211.	J01G	AMG			
The speed of sour	nd in the atmosphere	is most affected by variations in which of the following?			
1. Sound frequency (cps).					
2. Ambient temperature.					
3. Barometric pres	3. Barometric pressure.				
A) 1.					
B) 2.					
C) 3.	C) 3.				
212.	J01G	AMG			
Which will weigh th	he least?				

A) 98 parts of dr	ry air and 2 parts of wate	r vapor.			
B) 35 parts of dr	B) 35 parts of dry air and 65 parts of water vapor.				
C) 50 parts of dr	C) 50 parts of dry air and 50 parts of water vapor.				
213.	J01G	AMG			
	nditions will the rate of floer factors being equal)?	ow of a liquid through a metering orifice (or jet) be the			
A) Unmetered p	ressure, 18 PSI; metere	d pressure, 17.5 PSI; atmospheric pressure, 14.5 PSI.			
B) Unmetered p	ressure, 23 PSI; metere	d pressure, 12 PSI; atmospheric pressure, 14.3 PSI.			
C) Unmetered p	ressure, 17 PSI; metere	d pressure, 5 PSI; atmospheric pressure, 14.7 PSI.			
214.	J01G	AMG			
	t of a given liquid varies				
A) directly with p					
B) inversely with	•				
C) directly with o	lensity.				
215.	J01G	AMG			
	input is required to lowe	er (not drop) a 120-pound weight from the top of a 3-			
A) 120 pounds of					
B) 360 foot-pour					
C) 40 foot-pound					
, ,					
216.	J01G	AMG			
An airplane wing	g is designed to produce	lift resulting from			
A) positive air proof air.	essure below and above	e the wing's surface along with the downward deflection			
	oressure below the wing tith the downward deflect	s surface and positive air pressure above the wing's ion of air.			
	ressure below the wing's ith the downward deflect	surface and negative air pressure above the wing's ion of air.			
217.	J01G	AMG			
A wing with a ve	A wing with a very high aspect ratio (in comparison with a low aspect ratio wing) will have				
A) increased drag at high angles of attack.					
B) a low stall speed.					
C) poor control of	qualities at low airspeeds	3.			
218.	J01G	AMG			
	aircraft wing dihedral is t				
- F F					





228. K01G AMG

- (1) The Federal Aviation Regulations require approval after compliance with the data of a Supplemental Type Certificate.
- (2) An installation of an item manufactured in accordance with the Technical Standard Order system requires no further approval for installation in a particular aircraft.
- A) only No. 2 is true.
- B) neither No. 1 nor No. 2 is true.
- C) only No. 1 is true.

229.	K01G	AMG			
	Specifications pertaining to an aircraft model manufactured under a type certificate, of which less than 50 are shown on the FAA Aircraft Registry, can be found in the				
A) Aircraft Listir	ng.				
B) Summary of	Discontinued Aircraft Spe	cifications.			
C) FAA Statistic	cal Handbook of Civil Aircr	aft Specifications.			
230.	K01G	AMG			
	f an Airworthiness Certific	ate is governed by			
A) 14 CFR Part					
B) 14 CFR Part					
C) 14 CFR Part	39.				
231.	K01G	AMG			
		rcraft is sold, the Airworthiness Certificate			
	• •	spected and approved for return to service.			
,		d upon application by the new owner.			
	d with the aircraft.				
232.	K01G	AMG			
Placards require	ed on an aircraft are speci	fied in			
A) AC 43.13-1E	3.				
B) the Federal	Aviation Regulations unde	r which the aircraft was type certificated.			
C) Aircraft Spec	cifications or Type Certification	ate Data Sheets.			
233.	K01G	AMG			
	se of a specific propeller w reference to what informat	ith a particular engine airplane combination can be ional source?			
A) Propeller Sp	ecifications or Propeller T	/pe Certificate Data Sheet.			
B) Aircraft Spec	B) Aircraft Specifications or Aircraft Type Certificate Data Sheet.				
<ul><li>C) Alphabetical Listings.</li></ul>	Index of Current Propelle	r Type Certificate Data Sheets, Specifications, and			
-					
234.	K01G	AMG			
Where are technical descriptions of certificated propellers found?					
A) Applicable Airworthiness Directives.					
B) Aircraft Specifications.					
C) Propeller Ty	C) Propeller Type Certificate Data Sheets.				
235.	K01G	AMG			

		as necessary.) How many parts will need to be ruction and installation of one doubler?	
<ol> <li>Inspection.</li> <li>Part(s) replacer</li> <li>Design modificate</li> <li>Change in operation</li> </ol>	ation. ating procedure(s). in the content, form a 4. 5.	AMG what form?  nd disposition of aircraft maintenance records.	
237. K01G AMG  Type Certificate Data Sheets are issued for which of the following products?  A) Aircraft, engines, and propellers.  B) Aircraft, engines, and appliances.  C) Aircraft, engines, propellers, and appliances.			
A) Until the work is B) For one year af other work. C) They shall be re 239. Which of the follow A) Overhaul, repair B) Overhaul, repair	etained, and then tran  K01G  wing includes all the reir, parts replacement, ir, parts replacement,	•	
mechanic test?	K01G num penalty for cheati eceive any certificate o	AMG ng or other unauthorized conduct when taking an FAA or rating for one year.	

B) Ineligibility to receive any certificate held.	any certificate or rating fo	r one year, and suspension	on or revocation of	
C) Ineligibility to receive held.	any certificate or rating fo	r one year, and suspensio	on of any certificate	
241.		K02G	AMG	
The following is a table	of airspeed limits as given	in an FAA issued aircraft	specification:	
Normal operating speed	t	260 knots		
Never exceed speed		293 knots	293 knots	
Maximum landing gear	operation speed	174 knots		
Maximum flap extended	l speed	139 knots		
The high end of the whi	te arc on the airspeed insti	rument would be at		
A) 260 knots.				
B) 293 knots.				
C) 139 knots.				
242.	L01G	AMG		
Who has the authority to	o approve for return to serv		1-hour inspection?	
vviio nas the authority to	s approve for retain to sort	vice a proposici aitor a roc	Tiodi mopeodori:	
1. A mechanic with a po	owerplant rating.			
2. Any certificated repai	,			
3. A non-certificated me airframe and powerplan	echanic working under the statings.	supervision of a certificate	ed mechanic with	
A) 1.				
B) 1 and 3.				
C) 2.				
243.	L01G	AMG		
Who is responsible for o	determining that materials of the determining the determining that materials of the determining that materials of the determining the determining that materials of the determining the determining the determining that materials of the determining the determinin	used in aircraft maintenan	ce and repair are of	
A) The installing person	• • • •			
B) The owner or operator of the aircraft.				
C) The manufacturer of	the aircraft.			
244.	L01G	AMG		
	shall not exercise the privi months, the Administrator icate holder has			
A) served as a mechanic under the certificate and rating for at least 18 months.				

B) served as a mechanic under the certificate and rating for at least 12 months.C) served as a mechanic under the certificate and rating for at least 6 months.

245. L01G	AMG	
The replacement of a damaged engine mount with a new identical engine mount purchased from the aircraft manufacturer is considered a		
A) major or minor repair, depending	upon the complexity of the installation.	
B) major repair.		
C) minor repair.		
246. L01G	AMG	
Certificated mechanics, under their		
A) perform minor repairs to instrume		
B) perform 100-hour inspection of in		
C) perform minor alterations to instr	uments.	
247. L01G	AMG	
Which is classified as a major repai		
A) The splicing of skin sheets.		
B) Installation of new engine mounts obtained from the aircraft manufacturer.		
C) Any repair of damaged stressed metal skin.		
, , ,		
248. L01G	AMG	
Certificated mechanics with a power	rplant rating may perform	
A) any inspection required by the Federal Aviation Regulations on a powerplant or propeller or any component thereof, and may release the same to service.		
	ons required by the Federal Aviation Regulations on ponents thereof, and may release the same to service.	
C) 100-hour inspections required by the Federal Aviation Regulations on powerplants, propellers, or any components thereof, and may release the same to service.		
249. L01G	AMG	
FAA certificated mechanics may		
•	najor repair for which they are rated.	
B) supervise and approve a 100-ho		
,	ninor alteration they have performed appropriate to the	
rating(s) they hold.		
250. L01G	AMG	
How long does the holder of a certificate issued under 14 CFR part 65 have to notify the FAA		
after any change in permanent mailing address?		
A) 30 days.		
B) 60 days.		

C) 90 days.	
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251. L01G AMG

What is the maximum duration of a temporary airman certificate?

- A) 60 days.
- B) 90 days.
- C) 120 days.

252. L01G AMG

Which of the following statements is true for a certificated and appropriately rated mechanic regarding repairs and alterations?

- A) He/she may perform an airframe major repair or major alteration, but cannot approve the work for return to service.
- B) He/she may perform airframe minor repairs and minor alterations and approve the work for return to service, but cannot perform an airframe major repair or major alteration.
- C) He/she may perform an airframe major repair or major alteration and approve the work, but not the entire aircraft, for return to service.